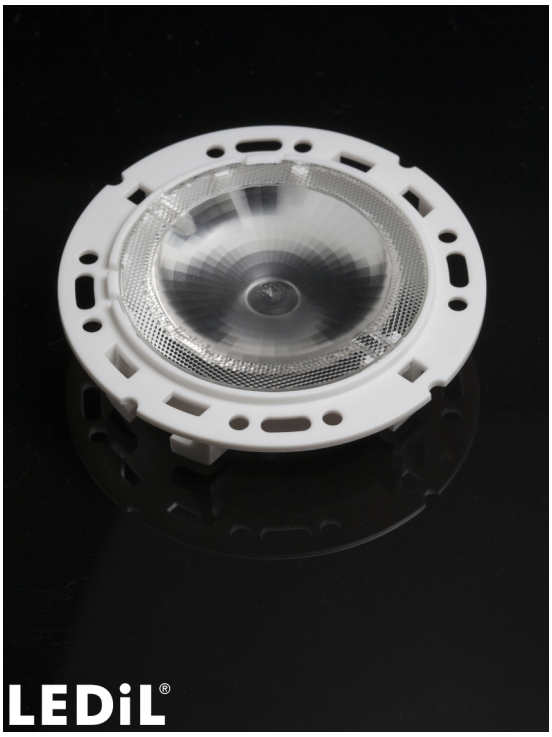
RONDA-WWW

~90° very wide beam with holder A compatible with 3rd party connectors from TE, Bender+Wirth and IDEAL



TECHNICAL SPECIFICATIONS:

Dimensions	Ø 69.9 mm
Height	14.6 mm
Fastening	socket
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
F15157_RONDA-WWW	Single lens	PMMA	clear	
F15155_RONDA-HLD-A	Holder	PC	white	

ORDERING INFORMATION:

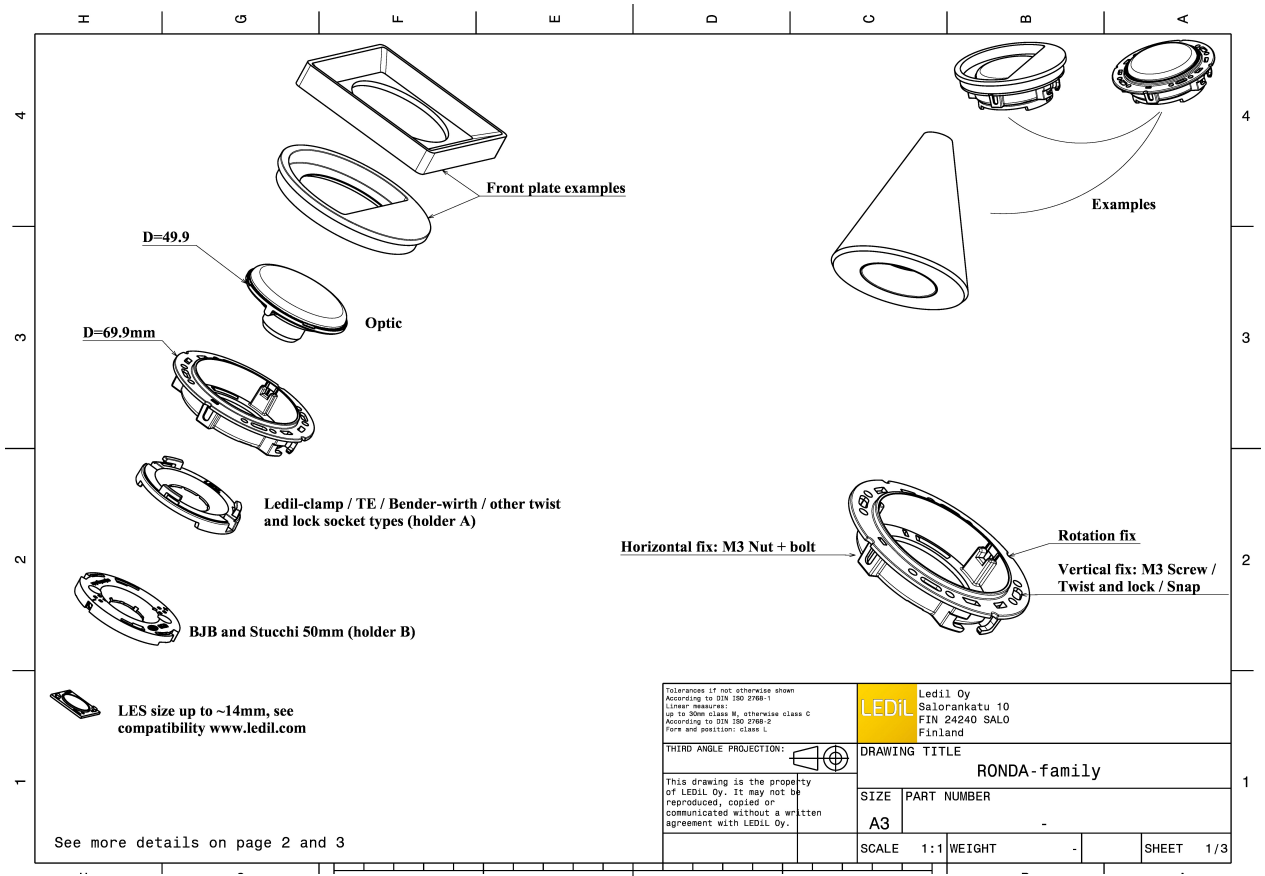
Quantities for one set:

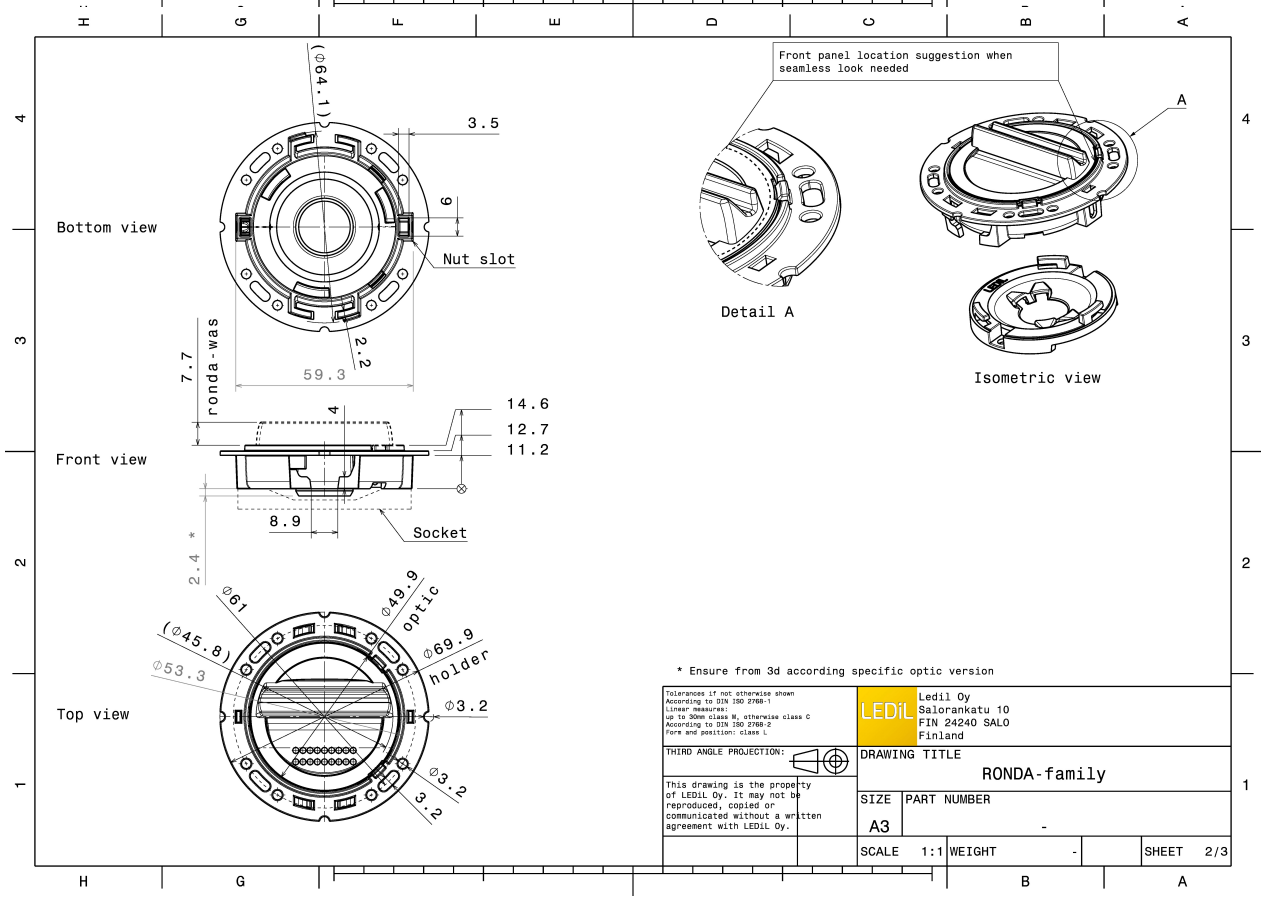
Single lens	1
Holder	1

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Component		Qty in box	MOQ	MPQ	Box weight (kg)
F15157_RONDA-WWW » Box size: 480 x 280 x 300 mm	Single lens	420	120	30	6.3
F15155_RONDA-HLD-A » Box size: 480 x 280 x 300 mm	Holder	420	120	30	4.4

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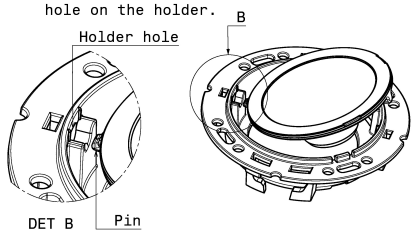




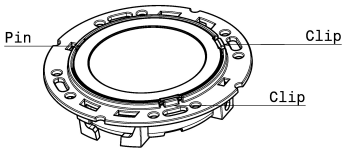
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTIC/HOLDER ASSEMBLY

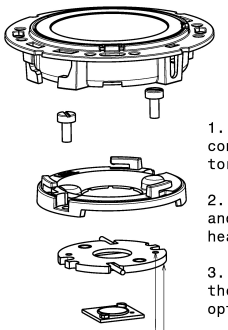
1. Place pin on the side of the lens into relative hole on the holder.



2. Press the lens under clips on the holder, ensuring both clips are fixed.



TYPICAL CONNECTOR ASSEMBLY (including solderless BENDER WIRTH as example)



1. Ensure correct relation of clamp and connector before screwing. Recommended torque 0.6Nm.

2. Assemble LED, BENDER&WIRTH connector and C13658_CLAMP-VERO13-18 clamp on heatsink with M3 screw.

3. Attach optic by aligning the holes in the holder with hooks and turning the optic holder clockwise until it locks.

Bender&Wirth model 4xx Typ L1

Align clamp positioning pin with holes in the connector.

Tolerances if not otherwise shown According to DIN ISO 2768-1 Linear measures: up to 30mm class H, otherwise class C According to DIN ISO 2768-2 Form and position: class L	LEDiL Ledil Oy Salorankatu 10 FIN 24240 SALO Finland
THIRD ANGLE PROJECTION:	DRAWING TITLE RONDA-family
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.	SIZE A3 / PART NUMBER - SCALE 1:1 / WEIGHT - / SHEET 3/3

See also our general installation guide: www.ledil.com/installation_guide

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PHOTOMETRIC DATA (MEASURED):

bridgelux

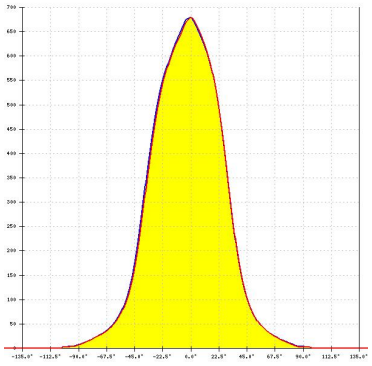
LED	V10 Gen7
FWHM / FWTM	66.0° / 108.0°
Efficiency	87 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 486 Typ L1



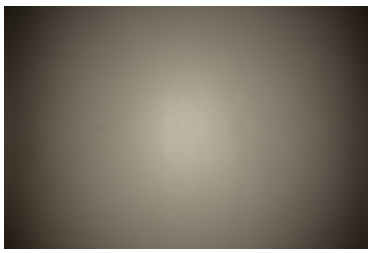


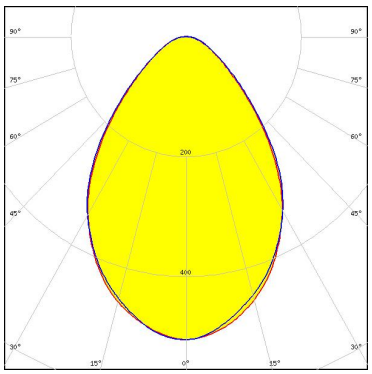
bridgelux

LED	V13 Gen7
FWHM / FWTM	76.0° / 126.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1





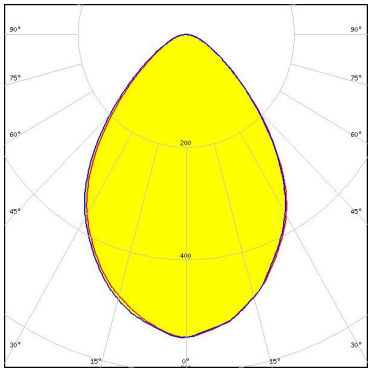
bridgelux

LED	Vero SE 13
FWHM / FWTM	78.0° / 124.0°
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C16402_CLAMP-VEROSE-13-18





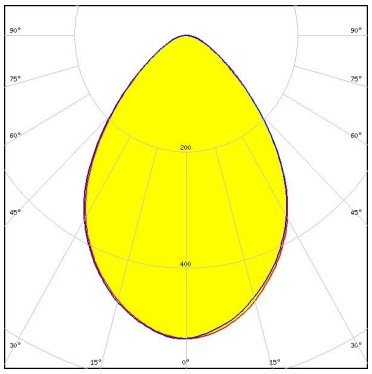
bridgelux

LED	VERO13
FWHM / FWTM	78.0° / 125.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18





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PHOTOMETRIC DATA (MEASURED):

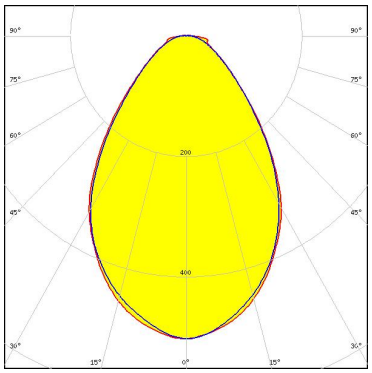
CITIZEN

LED	CLL03x/CLU03x
FWHM / FWTM	73.0° / 130.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2103CT + 50-2100AN





CITIZEN

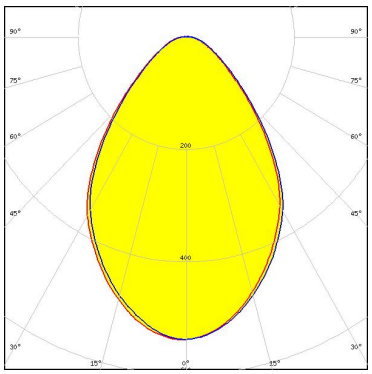
LED	CLL03x/CLU03x
FWHM / FWTM	75.0° / 127.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C16791_CLAMP-Z45-A

TE Connectivity: 2325807-3





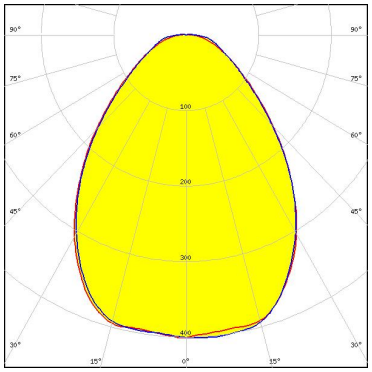
CITIZEN

LED	CLL04x/CLU04x
FWHM / FWTM	83.0° / 147.0°
Efficiency	82 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2204-CT + 50-2100AN



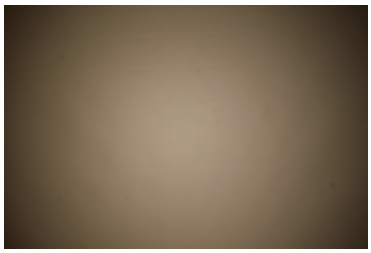


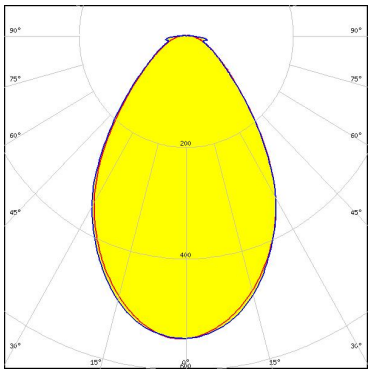
CITIZEN

LED	CLU730/731
FWHM / FWTM	71.0° / 125.0°
Efficiency	84 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2204-CT + 50-2100AN





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PHOTOMETRIC DATA (MEASURED):

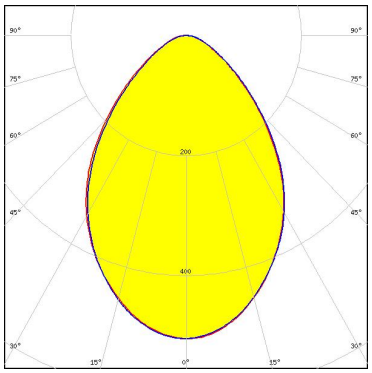
CREE LED

LED	CMA1840
FWHM / FWTM	78.0° / 129.0°
Efficiency	86 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18





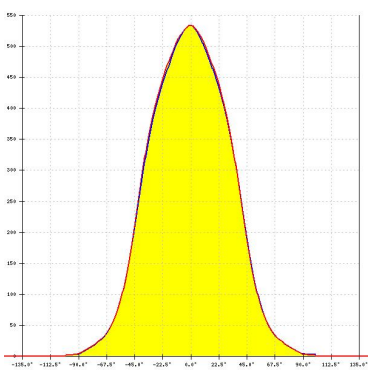
CREE LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	80.0° / 124.0°
Efficiency	90 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18





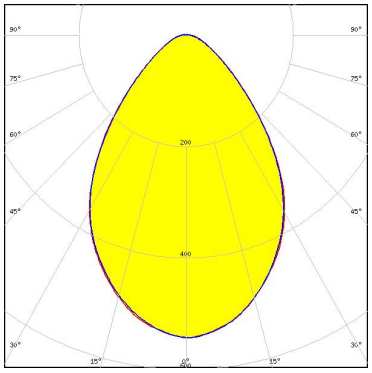
CREE LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	75.0° / 122.0°
Efficiency	85 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1





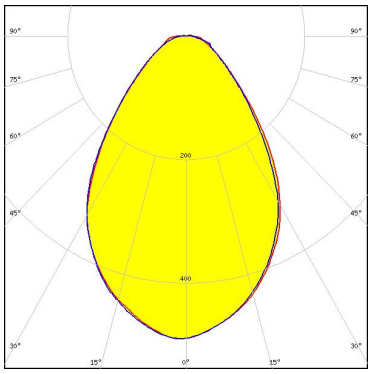
NICHIA

LED	COB J-Type
FWHM / FWTM	74.0° / 132.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2103NC + 50-2100AN





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PHOTOMETRIC DATA (MEASURED):

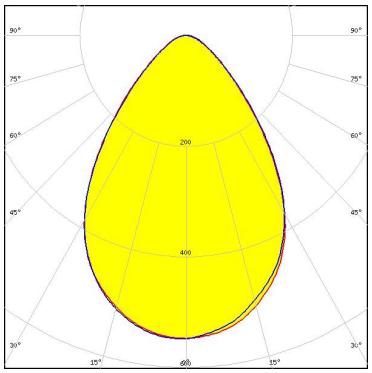
NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	74.0° / 119.0°
Efficiency	85 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1





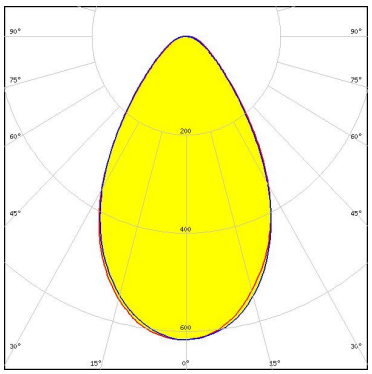
NICHIA

LED	COB L-Type (LES 11)
FWHM / FWTM	65.0° / 114.0°
Efficiency	83 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2100NC + 50-2100AN





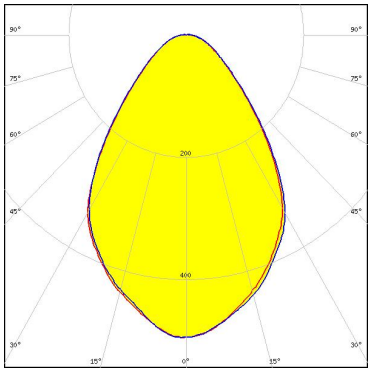
OSRAM

LED	PrevaLED Core G7 L15 H1
FWHM / FWTM	73.0° / 128.0°
Efficiency	79 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C16685_CLAMP-PRV-A





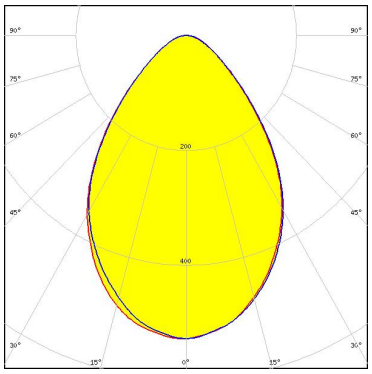
OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	75.0° / 123.0°
Efficiency	84 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1





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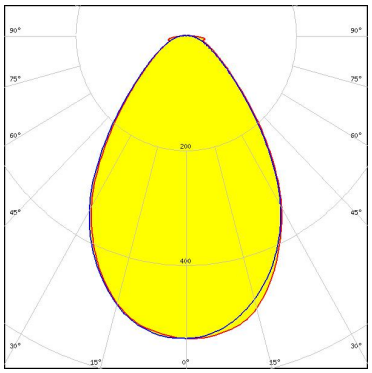
PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED	Soleriq S13 19x19
FWHM / FWTM	72.0° / 125.0°
Efficiency	83 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
IDEAL: 50-2103CT + 50-2100AN



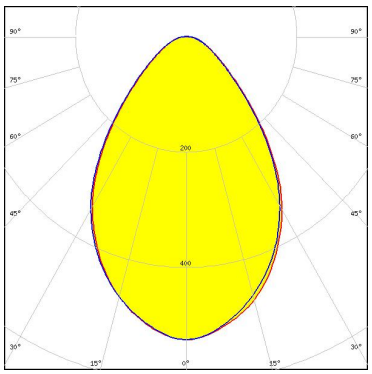


PHILIPS

LED	Fortimo SLM L13 + SLM holder
FWHM / FWTM	73.0° / 124.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1



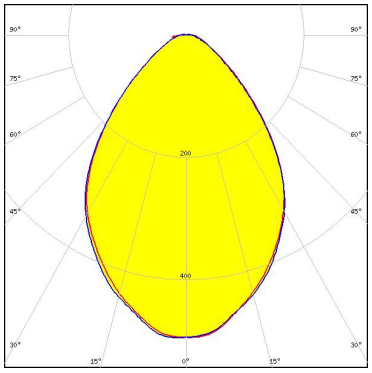


PHILIPS

LED	Fortimo SLM L13 CoB
FWHM / FWTM	78.0° / 125.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE Connectivity: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1



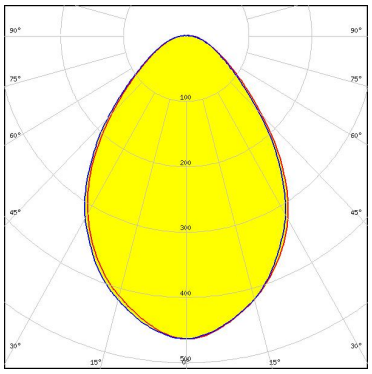


PHILIPS

LED	Fortimo SLM L15 + SLM holder
FWHM / FWTM	78.0° / 133.0°
Efficiency	80 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:
TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





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PHOTOMETRIC DATA (MEASURED):

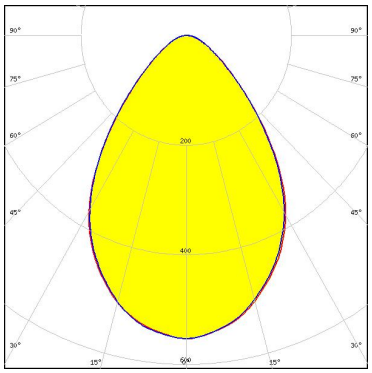
SAMSUNG

LED	LC040C
FWHM / FWTM	74.0° / 120.0°
Efficiency	85 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1





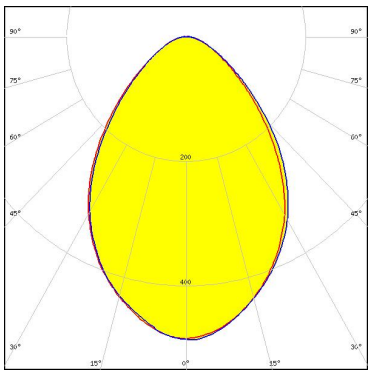
SEOUL SEMICONDUCTOR

LED	AC Zhaga COB
FWHM / FWTM	78.0° / 130.0°
Efficiency	83 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

Optosource: SEHSMJD-A





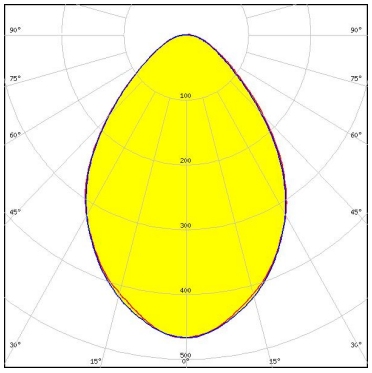
SEOUL SEMICONDUCTOR

LED	MJT COB LES 14.5
FWHM / FWTM	79.0° / 130.0°
Efficiency	80 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



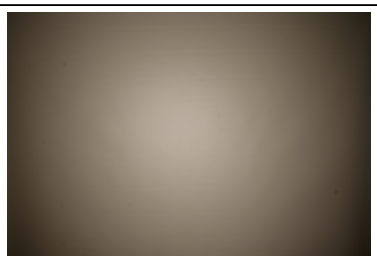


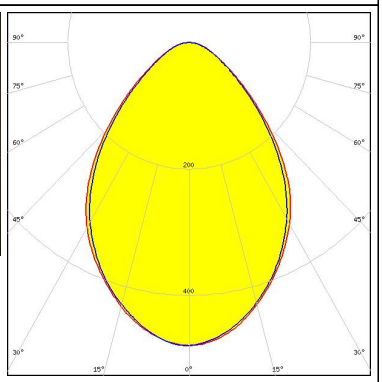
VS LIGHTING SOLUTIONS

LED	WU-M-484
FWHM / FWTM	79.0° / 130.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: OPTIC CLIP Z50 TYPE1 2213194-1





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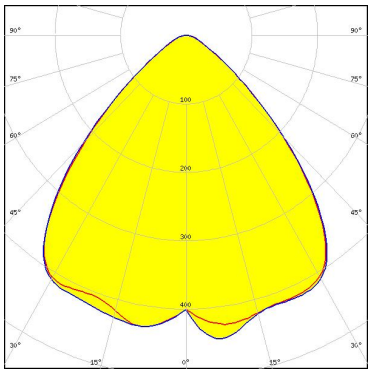
PHOTOMETRIC DATA (SIMULATED):

bridgelux

LED	V10 Gen6
FWHM / FWTM	89.0° / 120.0 + 119.0°
Efficiency	86 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18



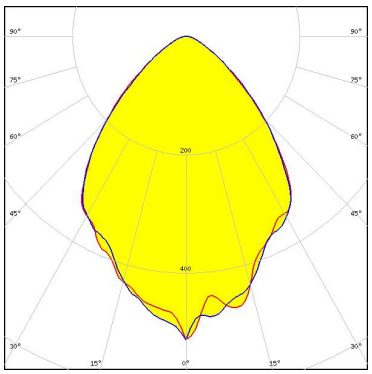
bridgelux

LED	V13 Gen7
FWHM / FWTM	80.0° / 121.0°
Efficiency	82 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 477 Typ L1

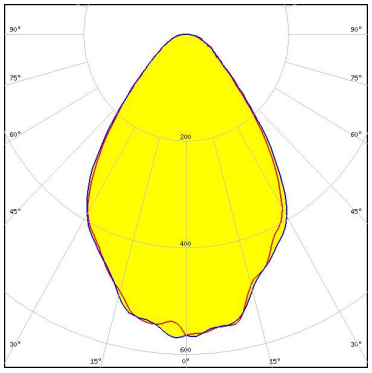


bridgelux

LED	V13 Gen7
FWHM / FWTM	72.0° / 120.0°
Efficiency	86 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

IDEAL: 50-2103CT + 50-2100AN



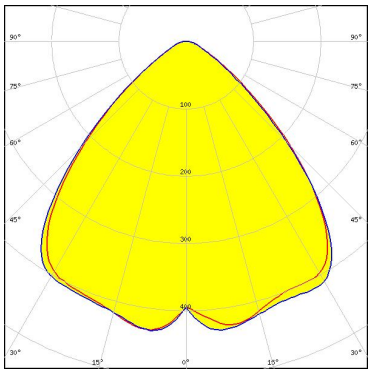
CITIZEN

LED	CLL02x/CLU02x (LES10)
FWHM / FWTM	90.0° / 120.0 + 121.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1



LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

PHOTOMETRIC DATA (SIMULATED):

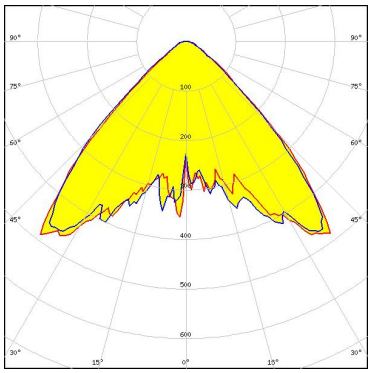
CITIZEN

LED	CLU700/701/702
FWHM / FWTM	90.0° / 97.0 + 113.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 434 Typ L1



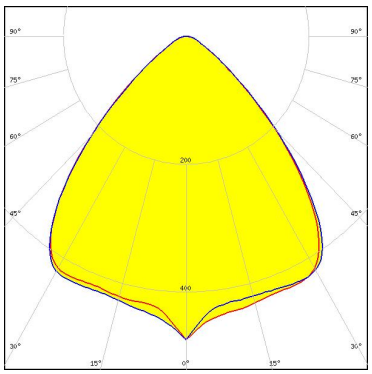
CITIZEN

LED	CLU710/711
FWHM / FWTM	88.0° / 118.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 470 Typ L1



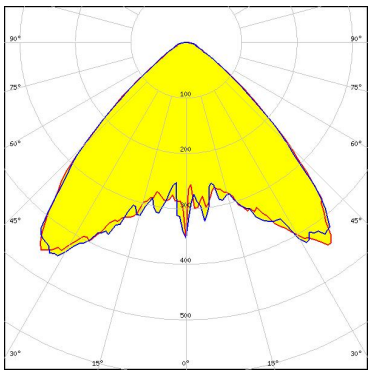
CREE LED

LED	CXA/B 13xx
FWHM / FWTM	90.0° / 103.0 + 118.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 448 Typ L1

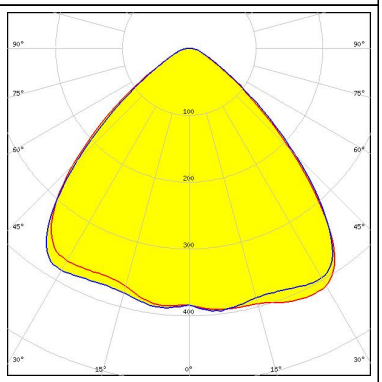


CREE LED

LED	CXA/B 15xx
FWHM / FWTM	90.0° / 116.0 + 124.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C14123_CLAMP-CXA15-18



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PHOTOMETRIC DATA (SIMULATED):

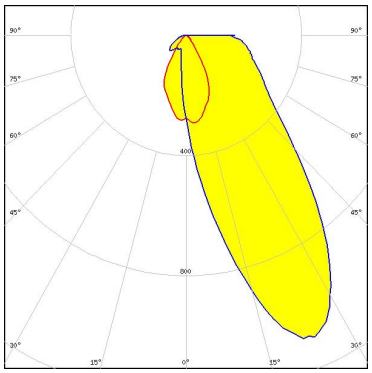
CREE LED

LED	CXA/B 15xx
FWHM / FWTM	90.0° / 116.0 + 124.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 441 Typ L1



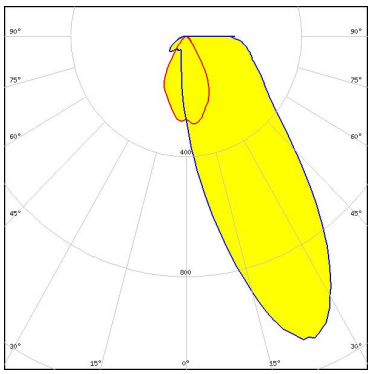
CREE LED

LED	CXA/B 1816 & CXA/B 1820 & CXA 1850
FWHM / FWTM	90.0° / 124.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 437 Typ L1



CREE LED

LED	CXA/B 1830
FWHM / FWTM	84.0°
Efficiency	85 %
LEDs/each optic	1
Light colour	White

Required components:

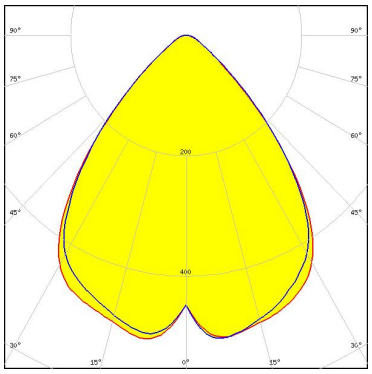
C14123_CLAMP-CXA15-18

LUMILEDS

LED	LUXEON CoB 1202/1203
FWHM / FWTM	82.0° / 112.0°
Efficiency	86 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1

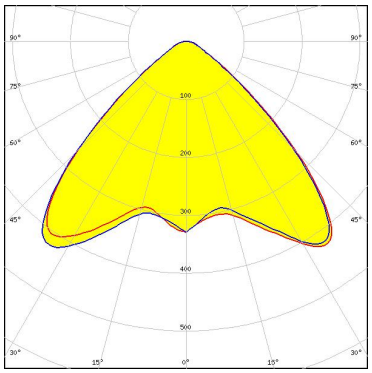


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PHOTOMETRIC DATA (SIMULATED):

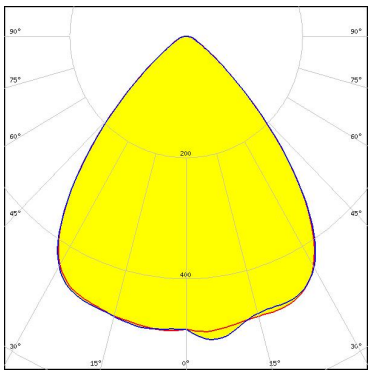
LUMILEDS

LED	LUXEON CoB 1202s
FWHM / FWTM	90.0° / 110.0 + 118.0°
Efficiency	87 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	
Bender Wirth: 452 Typ L1	



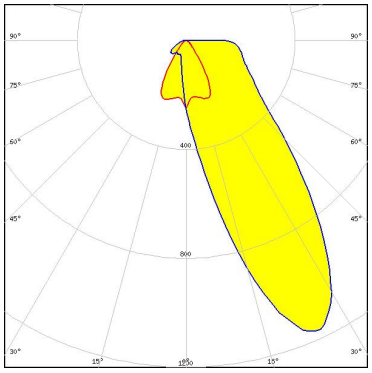
NICHIA

LED	COB L-Type (LES 9)
FWHM / FWTM	83.0° / 112.0°
Efficiency	86 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	



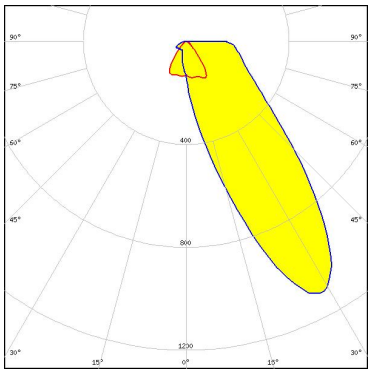
NICHIA

LED	NSCxL036A
FWHM / FWTM	85.0° / 109.0 + 100.0°
Efficiency	87 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1	



OSRAM
Opto Semiconductors

LED	Duris S10
FWHM / FWTM	99.0° / 128.0 + 118.0°
Efficiency	86 %
Peak intensity	0.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
C13658_CLAMP-VERO13-18	



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PHOTOMETRIC DATA (SIMULATED):

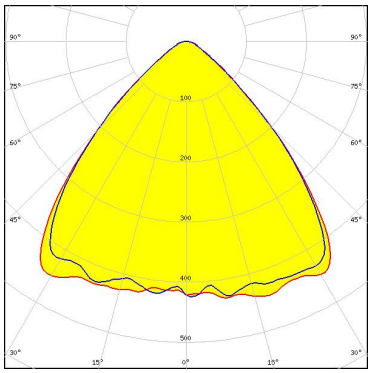
SHARP

LED	Mini Zenigata (GW6BM)
FWHM / FWTM	88.0° / 116.0 + 114.0°
Efficiency	86 %
Peak intensity	0.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

C13658_CLAMP-VERO13-18

Bender Wirth: 452 Typ L1



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GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

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